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TM 23-200

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OPNAV INSTRUCTION 03400.1B-SAN

DEPARTMENT OF THE AIR FORCE

AFL 136-1-SAN

MARINE CORPS PUBLICATIONS

NAVMC 1104 REV-SAN

LOG # BON/W. 0751-83-C

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PB97-152292

# CAPABILITIES OF ATOMIC WEAPONS *Sanitized version*



Prepared by

Armed Forces Special Weapons Project

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REVISED EDITION NOVEMBER 1957

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*TM 23-200/OPNAV INSTRUCTION 03400.1B/AFL 136-1/NAVMC 1104 REV*

*THIS PUBLICATION SUPERSEDES TM 23-200, OPNAV INSTRUCTION  
003400.1A, AFL 136-4/NAVMC 1104, 1 JUNE 1955, INCLUDING C 1, 1 APRIL 1956,  
C 2, 17 OCTOBER 1956, AND C 3, 19 SEPTEMBER 1957*

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# CAPABILITIES OF ATOMIC WEAPONS (U)



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United States Government Printing Office

Washington : 1957

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DEPARTMENT OF THE ARMY TECHNICAL MANUAL  
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MARINE CORPS PUBLICATIONS

C 2, TM 23-200  
OPNAVINST 03400.1B, CH-2  
AFM 136-1B  
NAVMC 1104 REV, CH-2

## CAPABILITIES OF ATOMIC WEAPONS

CHANGES  
No. 2

DEPARTMENTS OF THE ARMY, THE NAVY  
AND THE AIR FORCE  
WASHINGTON 25, D.C., 8 October 1960

TM 23-200/OPNAV Instruction 03400.1B/AFM 136-1/NAVMC 1104, REV, 29 November 1957, is changed as follows:

1. Make the following pen and ink changes in Changes No. 1:
  - a. *Page (I)*. Change item 11 to read: Remove pages I-29 and I-30 and substitute pages I-29 through I-32 Changes No. One.
  - b. *Page (IV)*. Change Navy distribution to read:

F9 (Station CNO)  
H23 (AV Med Ctr)
  - c. *Page v*. Change column 1, line 15 to read: 4-22a through 4-22d..... Change 1  
4-23 and 4-24..... Change 1  
Change column 1, line 16 to read: 4-25 through 4-88..... Original  
Change column 2, line 9 to read: I-9 through I-28..... Original
  - d. *Index*. Change page numbers 9 and 10 to read 11 and 12, respectively. Add C 1, 24 June 1960, in the upper inside corners of pages 1, 2, 5 through 8, and renumbered pages 11 and 12.
2. Destroy, according to proper security procedures, the page of the Index issued in Changes No. 1 as page 12. The reverse of page 12 is blank.
3. After necessary action, file the transmittal sheet in the front of the manual for reference.

TM 23-200

C 2, 3 October 1960

[AG 461 (9 Aug 60)]

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C 2, 3 October 1960

TM 23-200

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TIG (1)  
TAG (2)  
TJAG (1)  
CMH (2)  
CofCH (2)  
USASA (2)  
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Tech Stf Bd (2)  
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USA Inf Bd (2)  
USA AD Bd (2)  
USA Avn Bd (2)  
US ARADCOM (5)  
US ARADCOM Rgn (5)  
OS Maj Comd (5)  
OS Base Comd (5)  
Log Comd (5)  
MDW (2)  
Armies (10) except First US Army  
(12)  
Corps (10)  
Div (10) except Armored Div (25),  
(Each CC 5)  
Bde (5)  
Rgt/Gp/bg (5)  
Bn (2)  
USATC (2)  
USMA (2)  
USAWC (5)  
USACGSC (1500)  
Joint Sch (2)  
Br Svc Sch (2) except  
US ARADSCH (220)  
USAAMS (250)

USAARMS (500)  
USACMLCSCH (200)  
USAES (300)  
USAIS (445)  
AMSS (175)  
USA Ord Sch (85)  
PMGS (60)  
USA QM Sch (35)  
USATSCH (100)  
Specialist Sch (2) except  
USA AVNS (38)  
USA OGMS (50)  
USASWS (75)  
USAINTC (5)  
AH (1)  
Ports of Emb (OS) (5)  
Dist Engr (5)  
Div Engr (5)  
GENDEP (1)  
PG (2)  
Arsenals (1) except Picatinny  
Arsenal (2)  
MAAG (2)  
Mil Man (2)

*NG:* State AG (3).

*USAR:* Div (2).

For explanation of abbreviations used, see AR 320-50.

TM 23-200

C 2, 3 October 1960

Navy:

SNDL	J76 (Scol Flt Gunnery)	W3C (Air Basic Trng Comd)
Part I (Operating Forces)—(less Annex A)	J79 (Scol Intell)	W3E (Air Reserve Trng Comd)
Part II	J81 (Scol Mine Warfare)	W3F (Air Tech Trng Comd)
A3 (CNO)	J84 (Scol Postgraduate)	W3G (Mar Air Res Trng Comd)
A5 (Bureaus)	J87 (Service Scols)	W4A (Air Tech Trng Ctr)
A6 (Hdqtrs, U.S. MarCorps)	J88 (Scol Submarine)	W4B (Air Tech Tra Unit)
E4 (Laboratory ONR)	J93 (Scol Adv Undersea Wpns)	W4C (Air Res Trng Unit)
E5 (Research Office ONR)	J94 (Scol ROTC)	W4E (Mar Air Res Trng Det)
F2 (NavDist & River Comd Comdts)	J95 (Scol War College)	W4F (Nav Tech Tra Unit)
F3 (Base)	J98 (Scol Guided Missiles)	W4G (Hel Trng Grp)
F9 (Station CNO)	J104 (Nuc Pwr Trng Unit)	W4H (School Pre Flt)
F17 (Comm Sta)	J105 (Res Trng Comd)	W4J (CIC School)
F18 (Comm Unit)	L1 (Shipyard)	W5A (Naval Activities)
F21 (Admin Cmd & Unit CNO)	L7 (Lab BUSHIPS)	W5E (Flt Act BUWEPS)
F22 (Dipt Duty Intell)	L24 (Nav Acts)	W5K (Flt Intell Ctr)
F23 (Dipl Duty Missions)	L26 (Nav Fac)	W5L (Flt Air Intell Aug Unit)
F28 (Intell Off Naval Dist)	L30 (Sub Base)	W5M (Mob Intel Prod Unit)
F40 (Comm Facility)	L32 (Nav Supp Acts)	W6A (BUWEPS Gen Rep)
F41 (Security Sta)	L35 (Station, BUSHIPS)	W6B (BUWEPS Rep Off)
F42 (Radio Sta)	L38 (Base BUSHIPS)	W7A (Air Dev & Mat Ctr)
F43 (Radio Fac)	L42 (Flt Acts)	W7B (Air Mat Ctr)
F46 (Mar Bks CNO)	L45 (Oceanographic Unit)	W7C (Air Test Ctr)
F48 (Sec Grp Hdqtrs Act)	M17 (Ord Supp Dep)	W7E (Air Dev Ctr)
F56 (Flt Weather Cent)	M18 (Overseas Air Cargo Term)	W7F (EODT Ctr)
F57 (Flt Weather Fac)	M26 (Supply Annex)	W7J (Ord Miss Test Fac)
H5 (Lab BUMED)	M27 (Supply Ctr)	W7K (Air Spec Wpns Fac)
H23 (Av Med Ctr)	M28 (Supply Dep)	W7N (Air Min Def Dev Unit)
H24 (Scol AV Med)	M44 (Nuclear Wpns Supp Annex)	W7P (Weapons Laboratory)
J1 (Admin Command & Unit BUPERS)	M45 (Nuclear Wpns Supp Dep)	W7Q (Lab BUWEPS)
J3 (Air Def Trng Ctr)	M46 (Ord Sup Off)	W7T (Air Rocket Test Sta)
J4 (Amphib Base)	N2 (Public Works Off)	W7V (Underwater Ord Sta)
J12 (Flt Trng Ctr)	N8 (Lab BUDOCKS)	W7X (G M Unit)
J28 (Res Trng Ctr)	N9 (Pub Wks Ctr)	W8B (Miss Ctr)
J29 (Res Trng Fac)	R1 (Hdq Dept of Pac)	W9A (Weapons Plant)
J30 (Trs Publs Ctr)	R20 (Mar Cor Scol Quantico)	W9C (Propellant Plant)
J33 (Ser Scol Comd)	R36 (Hdqtrs Batt)	W9F (Mine Eng Fac)
J34 (Station BUPERS)	R64 (Mar Corps Base)	W9G (Ord Fac)
J35 (Sub Trng Fac)	W1A (Air Station)	W11A (Ammo Depot)
J36 (Trng Ctr)	W1B (Air Sta Auxiliary)	W11F (Tor Sta)
J48 (Constr Trng Unit)	W1C (Air Fac BUAER)	W11H (Mag)
J56 (Schools Command)	W1E (Mar Cor Air Stations)	W11J (Net Dep & Fac)
J60 (School Academy)	W1F (Mar Cor Aux Air Sta)	W12B (G M Serv Unit)
J65 (Schol CEC Off's)	W1G (Mar Cor Air Fac)	Copy to:
J66 (Scol Constr)	W1H (Station BUAER)	A1 (Sec & Exec Assts)
J71 (Scol Expl Ord Disp)	W1J (Flt Air Serv Ron Spec)	A2 (Exec Off of the Sec)
J73 (Scol Fit Sonor)	W2 (Air Bases Comd)	GSD NORVA (Stock 100 copies)
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	W3A (Air Trng Comd)	NWP WASH (Stock 50 copies)
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Air Force: X

Headquarters USAF	230	Continental Air Command	25
Tactical Air Command	150	Air Research & Development Command, ATTN: RDAPD	250
Air Training Command	2	Alaskan Air Command	28
Military Air Transport Service	25	Strategic Air Command	375
Air University	200	Caribbean Air Command	10
Pacific Air Forces	50	Headquarters Command, USAF	3
Air Materiel Command	35	USAF Security Service	4
U.S. Air Forces in Europe	60	AF Special Weapons Center	30
Air Defense Command	35		

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C 1, TM 23-200  
OPNAV Instruction 03400.1B, CH-1  
AFM 136-1A  
NAVMC 1104 REV, CH-1

Capabilities of Atomic Weapons (U)

CHANGES  
No. 1

DEPARTMENTS OF THE ARMY, THE NAVY,  
AND THE AIR FORCE  
WASHINGTON 25, D.C., 24 June 1960

TM 23-200/OPNAV Instruction 03400.1B/AFM 136-1/NAVMC 1104 REV, 29 November 1957,  
is changed as follows:

1. Change the Air Force number to read:  
**AFM 136-1.**
2. Remove pages v and vi and substitute pages v and vi of Changes Number One.
3. Remove pages xv through xxii and substitute pages xv through xxii of Changes Number One.
4. Remove pages 2-15 through 2-18 and substitute pages 2-15 through 2-18 of Changes Number One.
5. Remove pages 4-1 through 4-8 and substitute pages 4-1 through 4-8 of Changes Number One.
6. Following page 4-16, add pages 4-16a through 4-16d of Changes Number One.
7. Remove pages 4-21 through 4-24 and sub-

stitute pages 4-21, 4-22, 4-22a through 4-22d, 4-23, and 4-24 of Changes Number One.

8. Remove pages 9-3 and 9-4 and substitute pages 9-3 and 9-4 of Changes Number One.

9. Remove pages 9-9 through 9-12 and substitute pages 9-9 through 9-12 of Changes Number One.

10. Remove pages I-7 and I-8 and substitute pages I-7 and I-8 of Changes Number One.

11. Remove pages I-29 through I-32 and substitute pages I-29 through I-32 of Changes Number One.

12. Remove pages II-3 and II-4 and substitute pages II-3 and II-4 of Changes Number One.

13. Remove pages 1, 2, 5 through 8, and 11 and substitute pages 1, 2, 5 through 8, 11 and 12 of Changes Number One.

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*NG:* State AG (3).

*USAR:* Div (2).

For explanation of abbreviations used, see AR 320-50.

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Navy:

SNDL	J76 (Scol Flt Gunnery)	W3C (Air Basic Trng Comd)
Part I (Operating Forces)—(less Annex A)	J79 (Scol Intell)	W3E (Air Reserve Trng Comd)
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F18 (Comm Unit)	L1 (Shipyard)	W5A (Naval Activities)
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J30 (Tra Pubs Ctr)	R20 (Mar Cor Scol Quantico)	W9C (Propellant Plant)
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Tactical Air Command-----	150	Air Research & Development Command, ATTN: RDAPD-----	250
Air Training Command-----	2	Alaskan Air Command-----	28
Military Air Transport Service-----	25	Strategic Air Command-----	375
Air University-----	200	Caribbean Air Command-----	10
Pacific Air Forces-----	50	Headquarters Command, USAF-----	3
Air Materiel Command-----	35	USAF Security Service-----	4
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TM 23-200  
OPNAV INSTRUCTION 03400.1B  
AFL 136-1  
NAVMC 1104 Rev

DEPARTMENTS OF THE ARMY,  
THE NAVY, AND  
THE AIR FORCE

WASHINGTON 25, D. C., 29 November 1957

TM 23-200/OPNAV INSTRUCTION 03400.1B/AFL 136-1/NAVMC 1104 Rev, Capabilities of Atomic Weapons (U), is published for the use of all concerned.

[AG 461 (7 Oct 57)]

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ACSRC	USA Armor Bd	USMA	Army Log Maint Cen
SGS	USA Inf Bd	USAWC	RTC
CAMG	USA Air Def Bd	USACGSC	Arsenals
CoA	USA Abn & Elect Bd	USAARMS	Mil Dist
CUSARROTC	USA Avn Bd	USAAMS	MAAG
CofT	USA Armor Bd Test Sec	USARAD SCH	Mil Mis
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CNGB	CDEC	TAGSUSA	USMMR-SHAPE
CLL	USARADCOM	USACMLCSCH	AH
TIG	OS Maj Comd	USAES	Ports of Emb (OS)
TJAG	MDW	PMGS	Engr Dist
CMH	Armies	USATSCH	Div Engr
OCSpWar	Corps		PG
ASA	Div	USASCS	

*NG:* State AG; units—same as Active Army.

*USAR:* Same as Active Army.

For explanation of abbreviations used, see AR 320-50.

*Air Force:*

Zone of Interior and Overseas:

Headquarters USAF	230
Air Proving Ground Command	22
Tactical Air Command	150
Air Training Command	2
Crew Training Air Force	10
Flying Training Air Force	10
Technical Training Air Force	40
Military Air Transport Service	25
Air University	200
Far East Air Forces	50
Air Materiel Command	35
U. S. Air Forces in Europe	60
Air Defense Command	35
Continental Air Command	25
Air Research & Development Command, ATTN: RDAPD	250
Alaskan Air Command	28
Strategic Air Command	375
Caribbean Air Command	10
Headquarters Command, USAF	3
USAF Security Service	4
AF Special Weapons Center	30

C 1, 24 June 1960

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xv through xxii.....	Change 1	10-1 through 10-24.....	Original
1-1 through 1-14.....	Original	11-1 through 11-16.....	Original
2-1 through 2-14.....	Original	12-1 through 12-10.....	Original
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4- 9 through 4-16.....	Original	II-1 and II-2.....	Original
4-16a through 4-16d.....	Change 1	II-3 and II-4.....	Change 1
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## FOREWORD

The purpose of this manual is to provide the military Services with a compendium of the phenomena manifested by the detonation of nuclear weapons and the effects thereof in terms of damage to targets of military interest.

This edition of *Capabilities of Atomic Weapons* represents the continuing effort by the Armed Forces Special Weapons Project to make available the progressively improved data resulting from field testing, scaled tests, laboratory and theoretical analyses.

The manual is intended to serve as a basis for the preparation of operational manuals, not as an operational or employment manual of itself. Every effort has been made to include the best available data which will assist the using Services in meeting their particular operational requirements. As additional or better data becomes available it will be incorporated herein.

EDWARD N. PARKER  
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